

*Transfer*

UNITED STATES DEPARTMENT OF AGRICULTURE

FOREST SERVICE

18  
6/10  
FEB 29 1960

S  
PLANS-Inyo  
Timber Management  
Owens River Working Circle

May 1, 1952

STREAMLINED MANAGEMENT PLAN

FOR

OWENS RIVER WORKING CIRCLE

INYO NATIONAL FOREST

FEB 29 1960

TRANSFERRED



RECEIVED  
FEB 29 1960  
COPY



S  
PLANS-Inyo  
Timber Management  
Owens River Working Circle

May 1, 1952

STREAMLINED MANAGEMENT PLAN

FOR

OWENS RIVER WORKING CIRCLE

INYO NATIONAL FOREST

Prepared: May 1, 1952

By B. S. Smith

Approved May 19 1952

By Eldon E. Ball  
Forest Supervisor

APPROVED JUN 4 1952 1952

By A. G. Brunner  
Acting Regional Forester

APPROVED June 28 1952,

as a modification of the management plan approved March 29, 1923.

Edward P. Cliff  
Acting Chief, Forest Service

Copy sent Chief 6-4-52

" " Inyo 7-9-52

gpr

156

WRH

FOREST SERVICE, SAN FRANCISCO 11, CALIFORNIA

SUPERVISOR, INYO

C  
O  
P  
Y

REGIONAL FORESTER, BY

MARCH 27, 1956

S-PLANS-Inyo-(Timber Management-Owens River Working Circle)

Reference D-INSPECTION-GII-(Inyo-DeNio, R.M., Radcl, J.T., 1955) of March 20, 1956, FR-10, Recommendation No. 1.

Completion requirement for revision of the Owens River Working Circle Management Plan is changed from January 1958 to January 1961.

New aerial photography scheduled for Owens River Working Circle for 1956 and subsequent management plan cruise by Forest should facilitate completion of a regular timber management plan per 7-FSM, Paragraph 103.7 before this date.

K. W. KENNEDY

cc D Files



MAY 1 1952

FOREWARD

A Management Plan for the Mono Lake-Owens River Working Circle was prepared in 1923 by John S. Barnes, Forest Assistant, and was approved by Acting Forester E. E. Carter March 29, 1923. This plan established an allowable annual cut of 7 MM for a cutting cycle of 70 years and was predicated on the removal of 80% of the merchantable volume during that cutting cycle.

This streamlined plan revises the boundaries of the Mono Lake-Owens River Working Circle, by adding approximately 356,000 acres, by bringing the volume estimates up to date on the basis of more recent cruise data, and by modifying the silvicultural practice to provide for a larger reserve stand.



1. Resource Data: As of January 1, 1951.

Ownership	: Gross Area : (Acres)	: Merchantable Area : Uncut	: (Acres) : Cut-over	: Merchantable Area (Acres) : Total	: Merchantable Volume : MBM	:
*Area "A"	:	:	:	:	:	:
National Forest	: 43,340	: 35,000	: 8,340	: 43,340	: 280,263	:
Private	: 9,660	: 1,356	: 8,304	: 9,660	: 7,804	:
Sub-total	: 53,000	: 36,356	: 16,644	: 53,000	: 288,067	:
*Area "B"	:	:	:	:	:	:
National Forest	: 361,300	: 36,080	: 17,000	: 53,080	: 218,217	:
Private	: 18,340	: 3,920	: None	: 3,920	: 16,464	:
Sub-total	: 379,640	: 40,000	: 17,000	: 57,000	: 234,681	:
Totals	:	:	:	:	:	:
National Forest	: 403,640	: 71,080	: 25,340	: 96,420	: 498,480	:
Private	: 29,000	: 5,276	: 8,304	: 13,580	: 24,268	:
Total	: 432,640	: 76,356	: 33,644	: 110,000	: 522,748	:

\*Area "A" previously referred to as the "allocated area" is comprised of stands which, because of density and species composition, are considered as operable under average conditions.

\*Area "B" previously referred to as the "unallocated area" includes stands which, because of density and species composition, are usually operable only when market conditions are favorable.

2. Transportation System

Timber access road construction can be accomplished at relatively low cost on the gentle sandy slopes of the merchantable timbered areas. In general, primary logging roads required to log the allocated stands are already in existence. All logging road development should be correlated with forest protection and



other forest use. A copy of the "Timber Management Access Road Report" form for this working circle, is included in the appendix.

### 3. Silviculture

The entire Working Circle is in Eastside Sierra sub-region. The following timber types occur: Jeffrey pine, red fir, lodgepole and mixed conifer types. Site in the Jeffrey pine type varies from low Site V (65' at 300 years) in the Round Mountain Unit to Site III (125' at 300 years) in Dry Creek of the Mono-Owens Unit. Individual trees reach 20" d.b.h. in 65 years in the site III areas.

The guiding major objective of cutting this area will be to harvest the timber that is dead, defective or immediately susceptible to loss and to leave cutover areas in the best possible timber producing condition. The primary timber product of this area is sawlog production. Regional marking instructions will be followed.

### 4. Annual Cut

The allowable annual cut for the first cutting cycle is established in excess of net growth. This enables the completion of the first cutting cycle in a short period of time on a light marking basis and permits the removal and utilization of poor risk trees that would die and could not be utilized if a longer cutting cycle were required. After the first cutting cycle the cut will not exceed net growth.

For Area "A" the estimate of allowable cut for the first cutting cycle is based on  $1\frac{1}{2}$  times the growth expected on the reserve stand. See appendix table IV for basis of growth estimates.



Allowable annual cut =  $1\frac{1}{2} \times 4,117$  M board feet (annual growth).

Allowable cut = 6,172 M feet.

A reliable basis of estimating growth for Area "B" is lacking. Moreover, due to their light stand and species composition these stands will probably be operated intermittently when market conditions are favorable. It is estimated that approximately 50% of the volume in these stands will be removed over the 20 year cutting cycle which began in 1948. ✓

On this basis:

$$\text{Allowable Cut Area "B"} = \frac{50\% \times \text{Volume 1948}}{20 \text{ years}}$$

$$\text{" " " " = } \frac{50\% \times 235 \text{ MM}}{20}$$

$$\text{" " " " = } 5.9 \text{ MM}$$

Since logging in Area "B" may be intermittent dependent upon market conditions it is desirable to permit taking the entire cut of the circle from this area when it is possible to do so. Therefore, the allowable annual cut for the Owens River Working Circle is established at 12 MM feet of which not more than 6 MM will come from Area A. Any reduction in cutting of national forest timber below 6 MM feet in Area "A" may be accumulated as credit for cutting in Area "A" at more than 6 MM annually prior to December 31, 1957. In the use of this credit the overage allowable annual cut for the Working Circle will be 12 MM, and in no year will the cut exceed 13 MM. X



## 5. Sale Policy

It shall be the policy of the Inyo Forest to make sales and exchanges of timber insofar as possible from areas where greatest losses in timber value are likely to occur. These include areas of heavy insect infestation, disease infection, windthrow and fire damage.

- a. Timing Offerings - before each sale expires, another proposed sale area will be examined and appraised.
- b. Size of Offerings - will conform to Regional policy. Short-term sales will eliminate necessity of reappraisal and will permit greater flexibility in locating sales.
- c. Selection of Offerings - The Forest has the responsibility of designating the specific areas to be offered for sale, as shown in the cutting budget of the management plan.

The Inyo Lumber Company has the privilege of selecting the time for cutting the approximate 18 MM of selected timber in the April 14, 1945 exchange, prior to termination date of December 31, 1957.

- d. Auction or Sealed Bids - Bidding will be in accordance with Regional policy, National Forest Manual, Volume 3, Section B, paragraph 204.11, Region 5 Supplement.



6. Cutting Budget - January 1952 to December 31, 1954 - 3-year period.

In January of each year: (1) Post accomplishments; (2) Review; (3) Extend for one year.

Map No.	TIMBER			:	ROADS					
	Location	Area	Cut Vol		Responsible		Road	Miles		
		Acres	MMBM		F.S.	Oper.		Const.	Better	Maint.
1	Mono-Owens	A 950	3	:	:	:	:	:	:	:
(1952)	Unit	B 2090	4	:	:	:	:	:	:	:
		3040	7	:	:	x	-	4.0	-	4.0
2	Same	A 3160	8	:	:	:	:	:	:	:
(1952-53)		B 3260	6	:	:	:	:	:	:	:
		6420	14	:	:	x	-	11.0	-	21.0
3	Same	A 4360	13	:	:	:	:	:	:	:
(1953-54)		B None	-	:	:	:	:	:	:	:
		4360	13	:	:	x	-	11.1	-	11.1
4	Same	A 550	1	:	:	:	:	:	:	:
(1953-54)		B 460	1	:	:	:	:	:	:	:
		1010	2	:	:	x	-	2.0	-	10.0
Sub-total		A 9020	25	:	:	:	:	:	:	:
		B 5810	11	:	:	:	:	:	:	:
		14830	36	:	:	x	:	28.1	-	-

*See revision, page 5a, 2/15/54*

7. Revision Date - This plan should be revised January 1, 1958.



1470 National Forest

(Show all sales under contract and sales proposed for advertising by year.)

By: B.S. Sweatt

JAN 25 1956



R.O. Copy

FEB 15 1954

OWENS RIVER WORKING CIRCLE

INYO NATIONAL FOREST

FIVE-YEAR CUTTING BUDGET AND SALE PROGRAM (C. Y. INCLUSIVE)

(Show Sale and Planned Cut By Calendar Year)

6. CUTTING BUDGET (Revision of 2/15/54)

Name of Sale or Proposed Sale	Total Volume in Sale M.B.M.	Year	Estimated Cut by Year MBM	Acres	Operator Construction or Major Reconstruction FRD System	Road Number	Miles	Cost	MM Area A	MM Area B
Selected	7,000	1954	7	1,200	0105*	8.0			7	
Private	2,000	"	2	720	0102*	7.1				2
McGee Canyon	1,500	"	1 $\frac{1}{2}$	1,000	"	"				1 $\frac{1}{2}$
Last Chance	5,000	"	1 $\frac{1}{2}$	3,180	--	5.0				1 $\frac{1}{2}$
" "	"	1955	3 $\frac{1}{2}$	"	"	"			3 $\frac{1}{2}$	
Xmas Sale	500	"	$\frac{1}{2}$	40	0210	--			$\frac{1}{2}$	
Deadman	5,000	"	5	2,940	0205	11.0			4	1
Mono Craters	3,000	"	3	1,050	0107*	3.0				3
Alpers Canyon	13,000	1956	10 $\frac{1}{2}$	4,360	0204	11.1			10 $\frac{1}{2}$	
" "	"	1957	2 $\frac{1}{2}$	"	"	"			2 $\frac{1}{2}$	
Little Antelope	2,000	"	2	1,920	--	5.0				2
Lookout Mountain	4,500	"	4 $\frac{1}{2}$	2,360	0207	--			4 $\frac{1}{2}$	
					0202					

Revised 2/15/54 (Date)

By B. S. Swartz

Title District Ranger

WPA



MA

APPENDIX I - OWENS RIVER WORKING CIRCLE

VOLUME CUT BY INYO LUMBER COMPANY BY CALENDAR YEARS

\*(Figures obtained from Moffett)

<u>Volume Cut-MBM, Log Scale</u>			
<u>Calendar Year</u>	<u>U.S.</u>	<u>*Private</u>	<u>Total</u>
1944	8,412	Unknown	-
1945	12,800	0	12,800
1946	11,732	236	11,968
1947	4,541	7,504	12,045
3 year subtotal	29,073	7,740	36,813
1948	4,251	9,522	13,773
1949	6,767	4,647	11,414
1950	7,362	5,277	12,639
3 year subtotal	18,380	19,446	37,826
6 year Total	47,453	27,186	74,639
1951	11,407	25	11,432
1952	8,937	4,685	13,622
1953	15,240	none	15,240
1954	10,359		
1955	6,522		
1956			
1957			
10 year total 1948-57			114,933



APPENDIX IIOWENS RIVER WORKING CIRCLE - INYO NATIONAL FORESTCOMPLIANCE WITH ALLOWABLE CUT, BEGINNING JANUARY 1948

Cut from national forest Area "A" prior to December 31, 1957 - 60,000

M Ft.

Cut from Working Circle including private prior to December 31, 1957 -

120,000 M Ft.

	Volume Cut - MBM				Total (Approx.	
	National Forest				12 million/year.)	
C.Y.	Area "A"	Area "A"	Area "B"	Area "A"		
	Cut	Credit (I)	Cut			
1948	None	6,000	4,251	9,522		13,773
1949	None	12,000	6,767	4,647		11,414
1950	1,597	16,403	5,765	5,277		12,639
Sub-						
total	1,597	16,403	16,783	19,446		37,826
1951	6,708	15,695	4,699	25		11,432
1952	6937	14,758	2,000	4,685		13,622
1953	12690	8 068	2,550	none		15,240
1954		cut 10 227				
1955						
1956		-				
1957		-				
10 year:			35,849	24,156		
Total	60,000(2)	-	- - -	60,000 - - -		120,000

78,120

(1) Accumulated credit on Area "A" as provided for under 4. Annual Cut.

(2) Includes approximately 18 MM Selected Timber (Inyo Lumber Co. 4/14/45).

Hartley Springs 1953 2,672 M

cut on K exchange

C.Y.  
1950 2,672 M  
1953 12,528 M  
1954.



## APPENDIX III - OWENS RIVER WORKING CIRCLE

1948 Total Stand of Virgin Government Area "A" Timber by Townships in MBM.  
Within Mono-Owens Unit - Exclusive of Recreation Areas and Olcese Estate.

Townships	;	Merchantable	:	Volumes-MBM (As of January 1948)				
	:	Allocated	:	J.P.	W.W.P.	W.F.	R.F.	TOTAL
	:	Acres	:					
T. 1 S., R. 27 E.	:	2,200	:	14,702	-	-	-	14,702
T. 1 S., R. 28 E.	:	4,120	:	25,312	-	-	-	25,312
T. 2 S., R. 27 E.	:	9,920	:	86,090	33	882	1,648	88,653
T. 2 S., R. 28 E.	:	4,240	:	34,430	-	467	1,248	36,145
T. 3 S., R. 26 E.	:	420	:	63	139	-	9,698	9,900
T. 3 S., R. 27 E.	:	9,340	:	23,365	1,528	3,341	43,606	71,840
T. 3S ., R 28 E.	:	5,720	:	35,058	-	250	-	35,308
Total	:	35,960	:	219,020	1,700	4,940	56,200	281,860



# MAI APPENDIX

## GROWTH AND YIELD

A study of increment borings of 269 trees was made on eleven one acre plots in 1945 on the old Hess cutover. This included eight plots of Jeffrey pine type with an average site index at age 300 years of 101 and three plots of Jeffrey pine-fir type with an average index of 115. The eleven plots averaged at the time of cutting 17 M feet b.m. per acre total net stand, 15.1 M feet b.m. per acre cut and 1.9 M feet b.m. leave. The period of growth averaged 20 years since cutting.

Results of this study indicate the following:

Average gross growth per acre per year, J.P. type - - - - -	76.0 bd. ft.
Average losses per acre per year, J.P. type - - - - -	.3 bd. ft.
Average net growth per acre per year, J.P. type - - - - -	75.7 bd. ft.
Average gross growth per acre per year pine-fir type - - - - -	206.2 bd. ft.
Average losses per acre per year, pine-fir type - - - - -	35.7 bd. ft.
Average net growth per acre per year pine-fir type - - - - -	170.5 bd. ft.

On the basis that the sample area was approximately average for the Working Circle as a whole and on the basis that the average leave on the Working Circle as a whole will exceed the 1.9 M feet b.m. per acre on the sampled plots, and on the assumption that a greater leave per acre will-increase the average growth and average loss per acre, then the above growth data can be applied to the merchantable sawtimber producing lands with some conservation. Average annual growth for a twenty-year period following simultaneous cutting of the area would then approximate the following:

## APPENDIX IV - AVERAGE ANNUAL GROWTH - AREA "A"

Item	: Gross : Growth : Per A.	: * : Losses : Per A.	: Net : Growth: : Per A.:	: Acreage:	: Total : Gross : Growth	: Total : Losses	: Total : Net : Growth
Government J.P. type	: 76 ft	: 15 ft	: 61 ft	: 34,840	: 2,648 M:	: 523 M:	: 2,125 M
	: :	: :	: :	: :	: :	: :	: :
Government J.P.-fir & fir types	: 206 ft	: 41 ft	: 165 ft	: 8,500	: 1,751 M:	: 348 M:	: 1,403 M
	: :	: :	: :	: :	: :	: :	: :
Government Total or Average	: 101 ft	: 20 ft	: 81 ft	: 43,340	: 4,399 M:	: 871 M:	: 3,528 M
	: :	: :	: :	: :	: :	: :	: :
Private J.P. type	: 76 ft	: 15 ft	: 61 ft	: 9,660	: 734 M:	: 145 M:	: 589 M
	: :	: :	: :	: :	: :	: :	: :
Total or Avg. Gov't plus Pvt.	: 97 ft	: 19 ft	: 78 ft	: 53,000	: 5,133 M:	: 1,016 M:	: 4,117 M

\* Losses have been increased to 20% of gross growth.



FOREST SERVICE, SAN FRANCISCO 11, CALIFORNIA

SUPERVISOR, INYO

REGIONAL FORESTER

C  
O  
P  
Y

June 17, 1955

~~U-SUPERVISION-Policy-Roadside-Zones~~

S-PLANS-Inyo-(Timber Management-Owens River Working Circle)

Reference the review of Highway 395 roadside zone by members of this office.

This is your approval to cut and remove the following classes of trees from the roadside zone on that portion of Inter-State Highway 395 between Mammoth Junction and June Lake Junction, as defined on pages 20(c) and (d) and 21, NF-G-3:

1. Dead or dying trees. This to be interpreted as a concentration of insects which will ordinarily kill the tree within two seasons. A seriously diseased tree (rust) is defined as one in which a considerable portion of the tree is dead.
2. Mechanically injured trees which lean toward the highway and would reach the highway if they should break off or fall.

The trees will be felled away from the highway insofar as possible. There will be 100% cleanup and all logs and tops will be hauled off the roadside zone, which will vary from 200 feet on either side to a distance necessary to preserve an attractive roadside zone. All stumps will be cut to a height of not more than 8 inches.

CLARE HENDEE



MAY 1 - 1952  
10/23/51  
Date

TIMBER MANAGEMENT ACCESS ROAD REPORT

Owens River Working Circle

Region 5 State California Forest Inyo

1. Forest Development Road System Existing  
Satisfactory: Unsatisfactory: Ultimate System  
a. Timber access roads 45.4 Miles: - : Miles: 151.3 Miles  
b. General-purpose roads serving timber. 125.4 Miles: 2.3 : Miles: 127.7 Miles

2. Timber Production

- a. Sustained yield cutting capacity - next 10-year period 12 MMBF Annually  
b. Current rate of cutting, N. F. timber 12 MMBF Annually  
c. Current rate of cutting, other timber None MMBF Annually  
d. Effect upon current rate of cutting N.F. timber if public access road construction funds are completely discontinued. None MMBF Annually

3. Access Road Construction and Reconstruction Requirements

- a. To maintain current rate of N.F. cutting

Average Annual Requirements

	<u>Miles</u>	:	<u>\$</u>
F. S. Construction	<u>None</u>	:	<u>9,000</u>
Other Public Construction	<u>None</u>	:	<u>-</u>
F.S. Operator Construction	<u>8.6</u>	:	<u>26,000</u>
Other Private Construction	<u>None</u>	:	<u>-</u>

- b. To increase rate of N.F. cutting to sustained yield capacity

Total Requirements

	<u>Miles</u>	:	<u>\$</u>
F. S. Construction	<u>None</u>	:	<u>-</u>
Other Public Construction	<u>None</u>	:	<u>-</u>
F. S. Operator Construction	<u>None</u>	:	<u>-</u>
Other Private Construction	<u>None</u>	:	<u>-</u>

- c. To maintain increased rate of N.F. cutting at sustained yield level

Average Annual Requirements

	<u>Miles</u>	:	<u>\$</u>
F. S. Construction	<u>None</u>	:	<u>5,000 (2)</u>
Other Public Construction	<u>None</u>	:	<u>-</u>
F. S. Operator Construction	<u>5.4</u>	:	<u>22,000 (1)</u>
Other Private Construction	<u>None</u>	:	<u>-</u>

4. Five-year action plan. F.S. construction-None.

- (1) 20 year cutting cycle started January 1948.  
(2) For provision of steel culvert.



Exhibi

Forest Inyo  
Working Circle Owens River  
Compartment

TM, RO, February 1, 1952

January 16, 1956



### 5-PLANS-Inyo-(Timber Management)

Forest	INYO
Working Circle	Owens River
Compartment	Mono-Owens

1/7/55



RECORD OF CUT - SAWTIMBER  
(Separate sheet for each unit.)

Compartment

TM, RO, February 1, 1952



CUMULATIVE RECORD OF CUT - SAWTIMBER

## Working Circle

[illegible]

Total Annual Allowable Cut: 12 MM.

TM, RO, February 1, 1952



X

### Working Circle

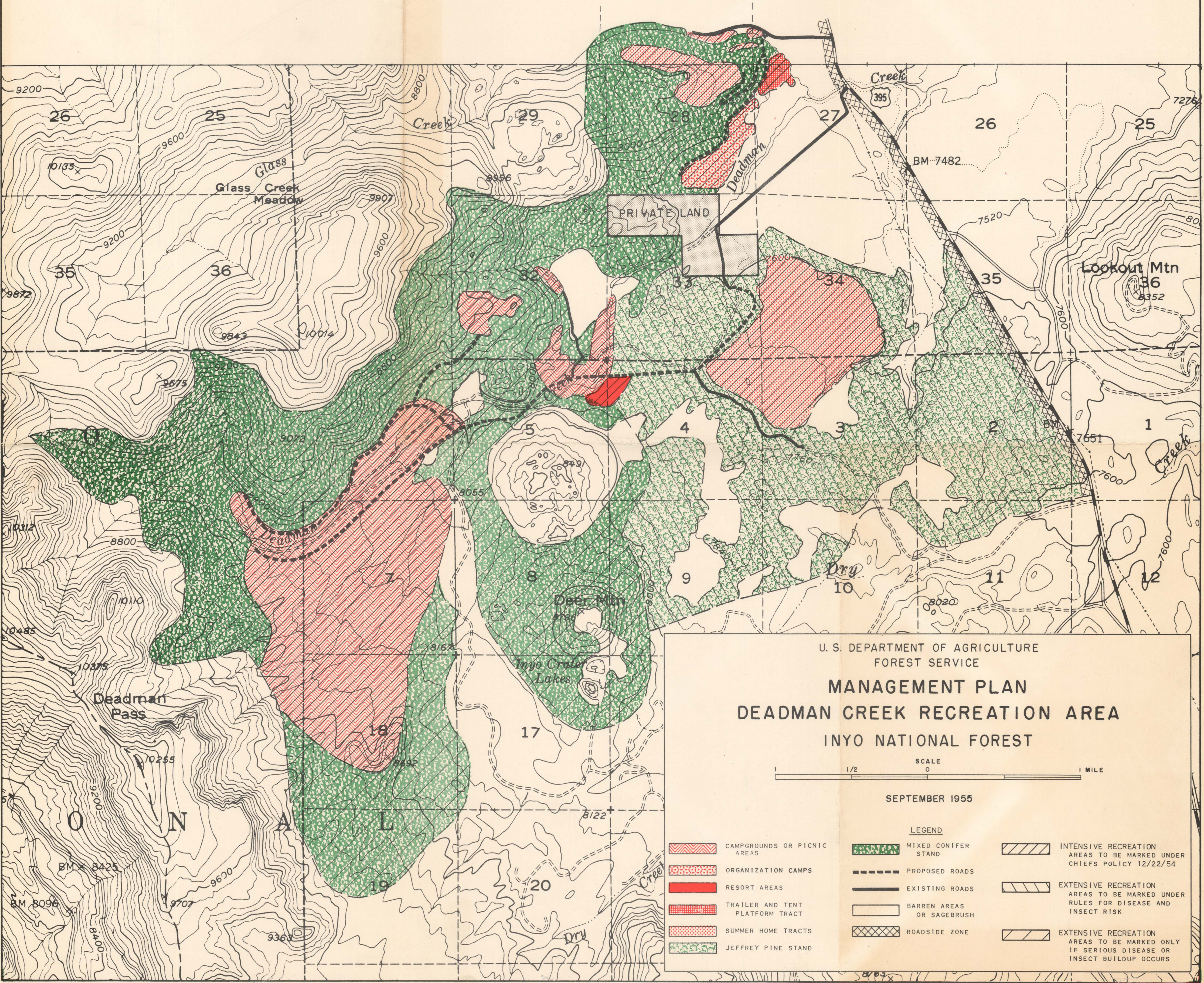
1

7

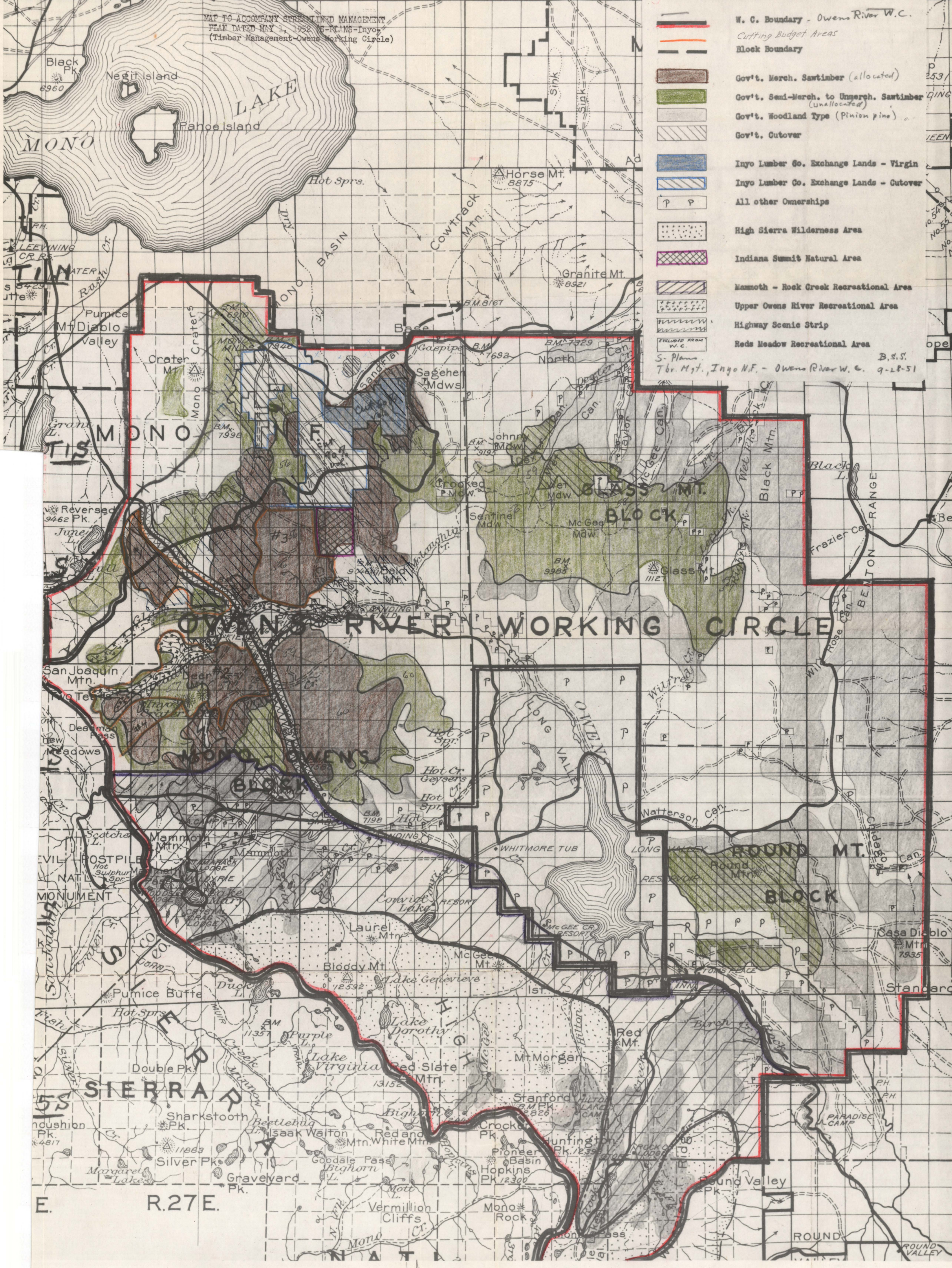
[illegible]

TM, RO, February 1, 1952









MAP TO ACCOMPANY STREAMLINED MANAGEMENT  
PLAN DATED MAY 1, 1952 (G-PLANS-Inyo)  
(Timber Management-Owens Working Circle)

- W. C. Boundary - Owens River W.C.
  - Cutting Budget Areas
  - Block Boundary
  - Gov't. Merch. Sawtimber (allocated)
  - Gov't. Semi-Merch. to Unmerch. Sawtimber (unallocated)
  - Gov't. Woodland Type (Pinion pine)
  - Gov't. Cutover
  - Inyo Lumber Co. Exchange Lands - Virgin
  - Inyo Lumber Co. Exchange Lands - Cutover
  - All other Ownerships
  - High Sierra Wilderness Area
  - Indiana Summit Natural Area
  - Mammoth - Rock Creek Recreational Area
  - Upper Owens River Recreational Area
  - Highway Scenic Strip
  - Reds Meadow Recreational Area
- S. Plans  
Tbr. Mt., Inyo NF. - Owens River W. C. 9-28-51